

(PCT Article 36 and Rule 70)

Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2004/052700

## Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of:
- ☐ international search (Rule 12.3 and 23.1(b))
- ☐ publication of the international application (Rule 12.4)
- ☐ international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the **elements** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 1, 2, 4-16 as originally filed/furnished
- pages\* 3, 3a received by this Authority on 26.08.2005 with letter of 24.08.2005
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the claims:
- nos. \_\_\_\_\_ as originally filed/furnished
- nos.\* \_\_\_\_\_ as amended (together with any statement) under Article 19
- nos.\* 1-14 received by this Authority on 20.12.2005 with letter of 19.12.2005
- nos.\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the drawings:
- sheets \_\_\_\_\_ as originally filed/furnished
- sheets\* 1/2, 2/2 received by this Authority on 12.11.2004 with letter of 12.11.2004
- sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1.	Statement		
	Novelty (N)	Claims <u>1-14</u>	YES
		Claims _____	NO
	Inventive step (IS)	Claims <u>1-14</u>	YES
		Claims _____	NO
	Industrial applicability (IA)	Claims <u>1-14</u>	YES
		Claims _____	NO
2.	Citations and explanations (Rule 70.7)		
	<b><u>Cited documents</u></b>		
1.	<p>This <u>International Preliminary Report on Patentability</u> makes reference to the following documents, <b>D1-D3</b>, which were cited in the <u>International Search Report</u>:</p> <p><b>D1: XP-002275698 "Definitions and Characteristics of Multicast Channels" LG Information &amp; Communications, Ltd. Korea TSG-RAN Working Group 2 (Radio Layer 2 and Radio Layer 3) Stockholm, 8-11 March 1999 pages 1-11</b></p> <p><b>D2: XP-002275700 "Considerations on MBMS Notification" Siemens 3GPP RAN2 &amp; RAN3 Joint MBMS Meeting Wokingham, Berkshire, UK, 15-16 January 2003 pages 1-3</b></p> <p><b>D3: XP-002317867 "MBMS Paging/Notification considerations" Ericsson 3GPP TSG-RAN2/3 Joint Adhoc on MBMS Paris, 14-15 May 2003</b></p>		

Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;  
citations and explanations supporting such statement**pages 1-6**

2. This report also makes reference to **D4**, which was introduced by the International Preliminary Searching Authority (PCT Article 33(6) PCT and PCT Guidelines, Part V, Chapter 17, 17.66):

**D4: "MAC Architecture for MBMS" Nortel  
Networks 3GPP TSG-RAN 2 Meeting #33  
Sophia Antipolis, France, 12-15  
November 2002 pages 1-2**

- A. Novelty and inventive step, PCT Article 33(2) and (3):

1. The present international application relates to a "method for transmitting data in a mobile communication system" according to the preamble of independent **claim 1**, and to a corresponding "base station" and "subscriber station" according to independent **claims 9 and 13**. Furthermore, independent **claim 14** claims a corresponding "mobile communication system".

The international application relates to MBMS service (Multimedia Broadcast/Multicast Service), in which subscribers who are registered for this MBMS service have to be notified before MBMS useful information is transmitted.

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Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

2. The prior art provides, for the purpose of notification, either for unused bits of existing DRX cycles of the UTRAN paging indicator channel (PICH) provided for "normal" calls to be used, or for additional DRX cycles specific to the MBMS service to be introduced on the PICH. Both methods have disadvantages.

It is also possible to provide for notifications to be transmitted directly on an MBMS control channel rather than on a paging indicator channel (PICH).

The cited documents **D1-D4** contain this prior art.

3. In contrast to the prior art, **according to the invention**, notifications to the subscriber stations are to be implemented with paging indicators using a paging indicator channel dedicated to MBMS services. The paging indicators comprise information relating to a service control channel.
4. This special design cannot be found in or derived from documents **D1-D4**. **According to the invention**, the notifications are transmitted by means of a method involving two channels, namely by paging indicators on a paging indicator channel dedicated to MBMS

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	<p><u>services</u>, which paging indicators, in turn, <u>refer to an MBMS service control channel</u>. The structure of this procedure corresponds to the PICH implementation according to UTRAN for "normal" calls.</p> <p>5. Since none of the available prior art documents cited in <u>the international search report</u> discloses or renders obvious the features of <b>claims 1, 9, 13 and 14</b>, either alone or in combination, these <b>claims 1, 9, 13 and 14</b> meet the requirements of PCT Article 33(2) and (3) with respect to <b>novelty</b> and <b>inventive step</b>.</p> <p>6. Dependent <b>claims 2-8 and 10-12</b> are all directly or indirectly dependent on <b>claim 1</b> or <b>claim 9</b>, respectively, and therefore they likewise meet the requirements of PCT Article 33(2) and (3) with respect to <b>novelty</b> and <b>inventive step</b>.</p> <p>B. <u>Certain defects in the international application:</u></p> <p>1. Contrary to the requirements of PCT Rule 5.1(a)(iii), the description has not been brought into line with the present claims.</p>